

## CLAIMS

1. A weight sensor which includes a grooved lower surface, the grooves being configured to enhance dispersion, in use, of fluids trapped between the weight sensor and a surface on which the weight sensor rests when a downward force is applied to the weight sensor.
2. A weight sensor as claimed in claim 1, wherein the grooves are configured to form a grid pattern.
3. A weight sensor as claimed in either one of claims 1 or 2, wherein the grooves are configured to form a tread pattern similar to or the same as that of a motor vehicle tyre.
4. A weight sensor accessory pad for placement at the bottom of a weight sensor, the pad including a grooved lower surface wherein the grooves are configured to enhance dispersion, in use, of fluids trapped between the pad and a surface on which the pad rests when a downward force is applied to the pad.
5. A pad as claimed in claim 4, which includes a grooved upper surface, the grooves being configured to enhance dispersion, in use, of fluids trapped between the pad and the bottom of the weight sensor when a downward force is applied to the pad.
6. A pad as claimed in either one of claims 4 or 5, wherein the grooves are configured to form a grid pattern.
7. A pad as claimed in any one of claims 4 to 6, wherein the grooves are configured to form a tread pattern similar to or the same as that of a motor vehicle tyre.
8. A pad as claimed in any one of claims 4 to 7, which is shaped and configured to compliment the bottom of the weight sensor.

9. A pad as claimed in any one of claims 4 to 8, which is shaped and configured for fitment to the bottom of a weight sensor.

5 10. A pad as claimed in claim 9, which is shaped and configured for fluid tight fitment to the bottom of a weight sensor so that fluids are prevented from entering between the pad and the bottom of the weight sensor.

11. A pad as claimed in claim 10, which includes a rim around the  
10 perimeter thereof, which rim is shaped and configured for fluid tight fitment of the pad to the bottom of a weight sensor.

12. A pad as claimed in any one of claims 4 to 11, which is fitted to the bottom of the weight sensor.

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13. A pad as claimed in claim 12, which is adhesively bonded to the bottom of a weight sensor.

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14. A pad as claimed in either one of claims 12 or 13 when dependent on at least claim 11, wherein the rim is made of an elastic material to facilitate elastic fitment of the rim to the bottom of a weight sensor.

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15. A pad as claimed in either one of claims 12 or 13 when dependent on at least claim 11, wherein the entire pad is made of an elastic material to facilitate elastic fitment of the rim to the bottom of a weight sensor.

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16. A pad as claimed in any one of claims 4 to 15, wherein at least the lower surface of the pad is made from a material having a relatively high friction co-efficient.

17. A pad as claimed in any one of claims 4 to 16, which is made from a fluid-impervious material.

18. A mould for the weight sensor accessory pad as claimed in any one of claims 4 to 17.
19. A housing for a weight sensor, the housing being made from fluid-impervious material and the housing being shaped and configured to completely enclose the weight sensor in a fluid tight manner.
20. A housing as claimed in claim 19, which is moulded around the weight sensor in a fluid tight manner.
21. A housing as claimed in either one of claims 19 or 20, wherein the material from which the housing is made is resistant to those petrochemicals typically found on a road surface.
22. A housing as claimed in any one of claims 19 to 21, wherein the material from which the housing is made is resistant to ultraviolet (UV) rays.
23. A housing as claimed in any one of claims 19 to 22, wherein the material from which the housing is made is resistant to ozone.
24. A housing as claimed in any one of claims 19 to 23, wherein the material from which the housing is made is resistant to those salts typically found on a road surface.
25. A housing as claimed in any one of claims 19 to 24, wherein the material from which the housing is made has a relatively high friction coefficient.
26. A housing as claimed in any one of claims 19 to 25, which includes a bottom portion analogous to the weight sensor accessory pad claimed in any one of claims 4 to 17.
27. A housing as claimed in any one of claims 19 to 26, which includes a protective top portion for protecting the weight sensor.

28. A housing as claimed in claim 27, wherein the top portion aids in distributing a downward force applied to the weight sensor.

5 29. A housing as claimed in any one of claims 19 to 28, which includes a hollow interior, which interior is shaped and configured complementarily to that of the weight sensor.

10 30. A housing as claimed in any one of claims 19 to 29, which is shaped and configured so that the housing can be fitted into a container for a weight sensor.

15 31. A housing as claimed in any one of claims 19 to 30, wherein the exterior of the housing is planar in shape and trapezoidal in cross section so that the top portion of the housing has a smaller surface area than the bottom portion of the housing.

32. A mould for the housing claimed in any one of claims 19 to 31.

20 33. A mould as claimed in claim 32, which is shaped and configured so that the housing can be fitted into a container for a weight sensor.

25 34. A mould as claimed in claim 33, wherein the container is used to embed the weight sensor into a road so that the top of the weight sensor is substantially flush with the surface of the road.

30 35. A mould as claimed in either one of claims 33 or 34, wherein the container is in the form of a framework into which the housing and the weight sensor are fitted.

36. A mould as claimed in any one of claims 33 to 35, wherein the moulding area within the mould is planar in shape and trapezoidal in cross section.

37. A mould as claimed in any one of claims 32 to 36, which includes inserts shaped and configured complimentary to the grooves in the bottom portion of the housing.
- 5 38. A mould as claimed in claim 37, wherein the inserts are in the form of a grid.
39. A mould as claimed in claim 38, wherein the grid forms a rectangular grid pattern.
- 10 40. A mould as claimed in either one of claims 38 or 39, wherein the grid forms a grid pattern analogous to a tread pattern similar to or the same as that of a motor vehicle tyre.
- 15 41. A mould as claimed in any one of claims 32 to 40, which is shaped and configured to receive a weight sensor therein.
42. A mould as claimed in claim 41, which includes suspension means for suspending the weight sensor in a predetermined position within
- 20 the mould.
43. A weight sensor, a pad, a mould for the pad, a housing, or a mould for the housing as hereinbefore generally described.
- 25 44. A weight sensor, a pad, a mould for the pad, a housing, or a mould for the housing as specifically described with reference to or as illustrated in the accompanying drawings.